TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-16-03** **Date: 18-08-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads & drains at kala talkies adjacent roads Kammagondanahalli in ward no. 12 in Shettyhalli sub division.
Agency	:	Technical Manager(West), Karnataka Rural Infrastructure Development Limited, Project Implementation unit, No.280, 59th Cross, 17th 'C' main Road, 3rd 'Y' Block, Rajajinagar, Banagalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/04/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-17
Sample ID No	:	2017-08-16-03/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-08-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.65	–
2	Finess by Air permeablity method (m^2/kg, Min)	286.4	225m^2/kg, Min
3	Density (gm/cc)	3.24	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-16-03** **Date: 19-08-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads & drains at kala talkies adjacent roads Kammagondanahalli in ward no. 12 in Shettyhalli sub division.
Agency	:	Technical Manager(West), Karnataka Rural Infrastructure Development Limited, Project Implementation unit, No.280, 59th Cross, 17th 'C' main Road, 3rd 'Y' Block, Rajajinagar, Banagalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/04/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	16-08-2017
Sample ID No	:	2017-08-16-03/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-08-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5480	5714	38.1	61.9	30-70
4	10 mm	4676	10390	69.3	30.7	10-35
5	4.75 mm	4256	14646	97.6	2.4	0-5
6	Pan	354	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-16-03** **Date: 19-08-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads & drains at kala talkies adjacent roads Kammagondanahalli in ward no. 12 in Shettyhalli sub division.
Agency	:	Technical Manager(West), Karnataka Rural Infrastructure Development Limited, Project Implementation unit, No.280, 59th Cross, 17th 'C' main Road, 3rd 'Y' Block, Rajajinagar, Banagalore-560 010.
Customer Reference	:	BBMP/EE/DD/WO/04/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-2017
Sample ID No	:	2017-08-16-03/2(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-08-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	–

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-08-16-03** **Date: 19-08-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads & drains at kala talkies adjacent roads Kammagondanahalli in ward no. 12 in Shettyhalli sub division.
Agency	:	Technical Manager(West), Karnataka Rural Infrastructure Development Limited, Project Implementation unit, No.280, 59th Cross, 17th 'C' main Road, 3rd 'Y' Block, Rajajinagar, Banagalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/04/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-2017
Sample ID No	:	2017-08-16-03/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	16-08-2017
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	145	229	22.9	77.1	60-95	75-100	85-100	95-100
4	1.18 mm	167	396	39.6	60.4	30-70	55-90	75-100	90-100
5	600 micron	187	583	58.3	41.7	15-34	35-59	60-79	80-100
6	300 micron	177	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	148	908	90.8	9.2	0-10	0-10	0-10	0-15
8	Pan	92	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-08-16-03** **Date: 19-08-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads & drains at kala talkies adjacent roads Kammagondanahalli in ward no. 12 in Shettyhalli sub division.
Agency	:	Technical Manager(West), Karnataka Rural Infrastructure Development Limited, Project Implementation unit, No.280, 59th Cross, 17th 'C' main Road, 3rd 'Y' Block, Rajajinagar, Banagalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/04/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-17
Sample ID No	:	2017-08-16-03/04
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	16-08-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	202	16403	31.150	1899.0	1914.2	Not less than 1800Kg/m^3
2	403	201	201	16282	31.420	1929.8		
3	401	202	203	16443	31.470	1913.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	32.140	31.170	3.11	3.77	Shall not be more than 10% by mass
2	32.410	31.190	3.91		
3	32.510	31.170	4.30		

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-08-18-02** **Date: 22-08-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads & drains at kala talkies adjacent roads Kammagondanahalli in ward no. 12 in Shettyhalli sub division.
Agency	:	Technical Manager(West), Karnataka Rural Infrastructure Development Limited, Project Implementation unit, No.280, 59th Cross, 17th 'C' main Road, 3rd 'Y' Block, Rajajinagar, Banagalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/04/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-08-17
Sample ID No	:	2017-08-18-02/01
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	18-08-17

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.48	100.49	1.316	4474	83.9	18.8	17.4	21.8
2	Cover Slab-2	75.46	100.50	1.342	4471	84.3	18.9	17.5	21.9
3	Cover Slab-3	75.52	100.53	1.378	4478	86.5	19.3	18.0	22.5

Note:

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2017-08-18-02** **Date: 22-08-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads & drains at kala talkies adjacent roads Kammagondanahalli in ward no. 12 in Shettyhalli sub division.
Agency	:	Technical Manager(West), Karnataka Rural Infrastructure Development Limited, Project Implementation unit, No.280, 59th Cross, 17th 'C' main Road, 3rd 'Y' Block, Rajajinagar, Banagalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/04/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-08-17
Sample ID No	:	2017-08-18-02/02
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	18/08/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	16.8	21.0
2	B	100.03	165.49	8.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	8.815	7854	145.1	18.5	18.5	23.1

Note:
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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್. ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-08-28-03**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. **Date: 31/08/2017**

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads & drains at kala talkies adjacent roads Kammagondanahalli in ward no. 12 in Shettyhalli sub division.

Agency : Technical Manager(West), Karnataka Rural Infrastructure Development Limited, Project Implementation unit, No.280, 59th Cross, 17th 'C' main Road, 3rd 'Y' Block, Rajajinagar, Banagalore-560 010.

Customer's Reference : BBMP/EE/DD/WO/04/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-08-2017

Sample ID No : 2017-08-28-03/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/08/2017	31/08/2017	150.22 X 150.33 X 150.35	22583	8.278	289.1	12.8	12.8
2	PCC	M15	24/08/2017	31/08/2017	150.28 X 150.34 X 150.30	22593	8.311	296.0	13.1	
3	PCC	M15	24/08/2017	31/08/2017	150.28 X 150.31 X 150.38	22589	8.342	282.4	12.5	

Note:

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ಬಿಬಿಎಂಪಿ ಉಪವಿಭಾಗ, ಶಾಂತಿನಗರ ವಲಯ
ಶೆಟ್ಟಿಹಳ್ಳಿ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಶ್ರೀ.ಎಂ. ರಸ್ತೆ, ಬೆಂಗಳೂರು.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-08-31-01** **Date: 04/09/2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads & drains at kala talkies adjacent roads Kammagondanahalli in ward no. 12 in Shettyhalli sub division.
Agency	:	Technical Manager(West), Karnataka Rural Infrastructure Development Limited, Project Implementation unit, No.280, 59th Cross, 17th 'C' main Road, 3rd 'Y' Block, Rajajinagar, Banagalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/04/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-08-2017
Sample ID No	:	2017-08-31-01/01
Customer ID	:	M30 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	28/08/2017	04/09/2017	150.26 X 150.30 X 150.24	22584	8.298	589.4	26.1	26.5
2	M30 Concrete	M30	28/08/2017	04/09/2017	150.32 X 150.36 X 150.40	22602	8.331	621.6	27.5	
3	M30 Concrete	M30	28/08/2017	04/09/2017	150.23 X 150.35 X 150.30	22587	8.382	582.7	25.8	

Note:

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿಬಿಎಂಪಿ, ಗಣೇಶ ದೇವಾಲಯದ ಹತ್ತಿರ.

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